

1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP

1.1.1 Test Result

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	29.74	2.65	32.39	<=33.01	Pass
		2 TX Slots	1850.2	29.21	2.65	31.86	<=33.01	Pass
		3 TX Slots	1850.2	27.45	2.65	30.10	<=33.01	Pass
		4 TX Slots	1850.2	25.84	2.65	28.49	<=33.01	Pass
		1 TX Slot	1880	29.94	2.65	32.59	<=33.01	Pass
		2 TX Slots	1880	29.10	2.65	31.75	<=33.01	Pass
		3 TX Slots	1880	27.50	2.65	30.15	<=33.01	Pass
		4 TX Slots	1880	25.89	2.65	28.54	<=33.01	Pass
		1 TX Slot	1909.8	29.96	2.65	32.61	<=33.01	Pass
		2 TX Slots	1909.8	28.93	2.65	31.58	<=33.01	Pass
		3 TX Slots	1909.8	27.41	2.65	30.06	<=33.01	Pass
		4 TX Slots	1909.8	25.85	2.65	28.50	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.75	2.65	28.40	<=33.01	Pass
		2 TX Slots	1850.2	24.84	2.65	27.49	<=33.01	Pass
		3 TX Slots	1850.2	22.85	2.65	25.50	<=33.01	Pass
		4 TX Slots	1850.2	21.13	2.65	23.78	<=33.01	Pass
		1 TX Slot	1880	25.92	2.65	28.57	<=33.01	Pass
		2 TX Slots	1880	24.84	2.65	27.49	<=33.01	Pass
		3 TX Slots	1880	22.75	2.65	25.40	<=33.01	Pass
		4 TX Slots	1880	21.26	2.65	23.91	<=33.01	Pass
		1 TX Slot	1909.8	25.93	2.65	28.58	<=33.01	Pass
		2 TX Slots	1909.8	24.96	2.65	27.61	<=33.01	Pass
		3 TX Slots	1909.8	24.21	2.65	26.86	<=33.01	Pass
		4 TX Slots	1909.8	21.36	2.65	24.01	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	3.27	27.863	0.0151	-2.5 to 2.5	Pass
			3.85	36.031	0.0195	-2.5 to 2.5	Pass
			4.43	43.198	0.0233	-2.5 to 2.5	Pass
		-30	3.85	40.551	0.0219	-2.5 to 2.5	Pass
		-20	3.85	31.576	0.0171	-2.5 to 2.5	Pass
		-10	3.85	25.086	0.0136	-2.5 to 2.5	Pass
		0	3.85	33.803	0.0183	-2.5 to 2.5	Pass
		10	3.85	32.996	0.0178	-2.5 to 2.5	Pass
		30	3.85	32.706	0.0177	-2.5 to 2.5	Pass
		40	3.85	27.152	0.0147	-2.5 to 2.5	Pass
		50	3.85	24.376	0.0132	-2.5 to 2.5	Pass

	1880	20	3.27	12.107	0.0064	-2.5 to 2.5	Pass
			3.85	9.040	0.0048	-2.5 to 2.5	Pass
			4.43	18.371	0.0098	-2.5 to 2.5	Pass
		-30	3.85	15.303	0.0081	-2.5 to 2.5	Pass
		-20	3.85	18.468	0.0098	-2.5 to 2.5	Pass
		-10	3.85	19.630	0.0104	-2.5 to 2.5	Pass
		0	3.85	20.211	0.0108	-2.5 to 2.5	Pass
		10	3.85	5.392	0.0029	-2.5 to 2.5	Pass
		30	3.85	3.616	0.0019	-2.5 to 2.5	Pass
		40	3.85	3.422	0.0018	-2.5 to 2.5	Pass
		50	3.85	13.431	0.0071	-2.5 to 2.5	Pass
	1909.8	20	3.27	27.346	0.0143	-2.5 to 2.5	Pass
			3.85	28.734	0.0150	-2.5 to 2.5	Pass
			4.43	17.176	0.0090	-2.5 to 2.5	Pass
		-30	3.85	17.047	0.0089	-2.5 to 2.5	Pass
		-20	3.85	20.276	0.0106	-2.5 to 2.5	Pass
		-10	3.85	29.638	0.0155	-2.5 to 2.5	Pass
		0	3.85	17.628	0.0092	-2.5 to 2.5	Pass
		10	3.85	16.789	0.0088	-2.5 to 2.5	Pass
		30	3.85	16.692	0.0087	-2.5 to 2.5	Pass
		40	3.85	21.535	0.0113	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	30.284	0.0164	-2.5 to 2.5	Pass
			3.85	31.220	0.0169	-2.5 to 2.5	Pass
			4.43	37.064	0.0200	-2.5 to 2.5	Pass
		-30	3.85	30.187	0.0163	-2.5 to 2.5	Pass
		-20	3.85	28.024	0.0151	-2.5 to 2.5	Pass
		-10	3.85	26.700	0.0144	-2.5 to 2.5	Pass
		0	3.85	26.991	0.0146	-2.5 to 2.5	Pass
		10	3.85	28.670	0.0155	-2.5 to 2.5	Pass
		30	3.85	39.776	0.0215	-2.5 to 2.5	Pass
		40	3.85	30.768	0.0166	-2.5 to 2.5	Pass
		50	3.85	21.825	0.0118	-2.5 to 2.5	Pass
	1880	20	3.27	9.105	0.0048	-2.5 to 2.5	Pass
			3.85	12.721	0.0068	-2.5 to 2.5	Pass
			4.43	12.785	0.0068	-2.5 to 2.5	Pass
		-30	3.85	13.399	0.0071	-2.5 to 2.5	Pass
		-20	3.85	12.914	0.0069	-2.5 to 2.5	Pass
		-10	3.85	25.506	0.0136	-2.5 to 2.5	Pass
		0	3.85	18.758	0.0100	-2.5 to 2.5	Pass
		10	3.85	22.019	0.0117	-2.5 to 2.5	Pass
		30	3.85	16.530	0.0088	-2.5 to 2.5	Pass
		40	3.85	12.753	0.0068	-2.5 to 2.5	Pass
		50	3.85	20.050	0.0107	-2.5 to 2.5	Pass
	1909.8	20	3.27	31.479	0.0165	-2.5 to 2.5	Pass
			3.85	28.315	0.0148	-2.5 to 2.5	Pass
			4.43	25.635	0.0134	-2.5 to 2.5	Pass
		-30	3.85	24.376	0.0128	-2.5 to 2.5	Pass
		-20	3.85	23.795	0.0125	-2.5 to 2.5	Pass
		-10	3.85	23.310	0.0122	-2.5 to 2.5	Pass
		0	3.85	19.727	0.0103	-2.5 to 2.5	Pass
		10	3.85	23.666	0.0124	-2.5 to 2.5	Pass
		30	3.85	23.310	0.0122	-2.5 to 2.5	Pass
		40	3.85	25.409	0.0133	-2.5 to 2.5	Pass
		50	3.85	17.693	0.0093	-2.5 to 2.5	Pass

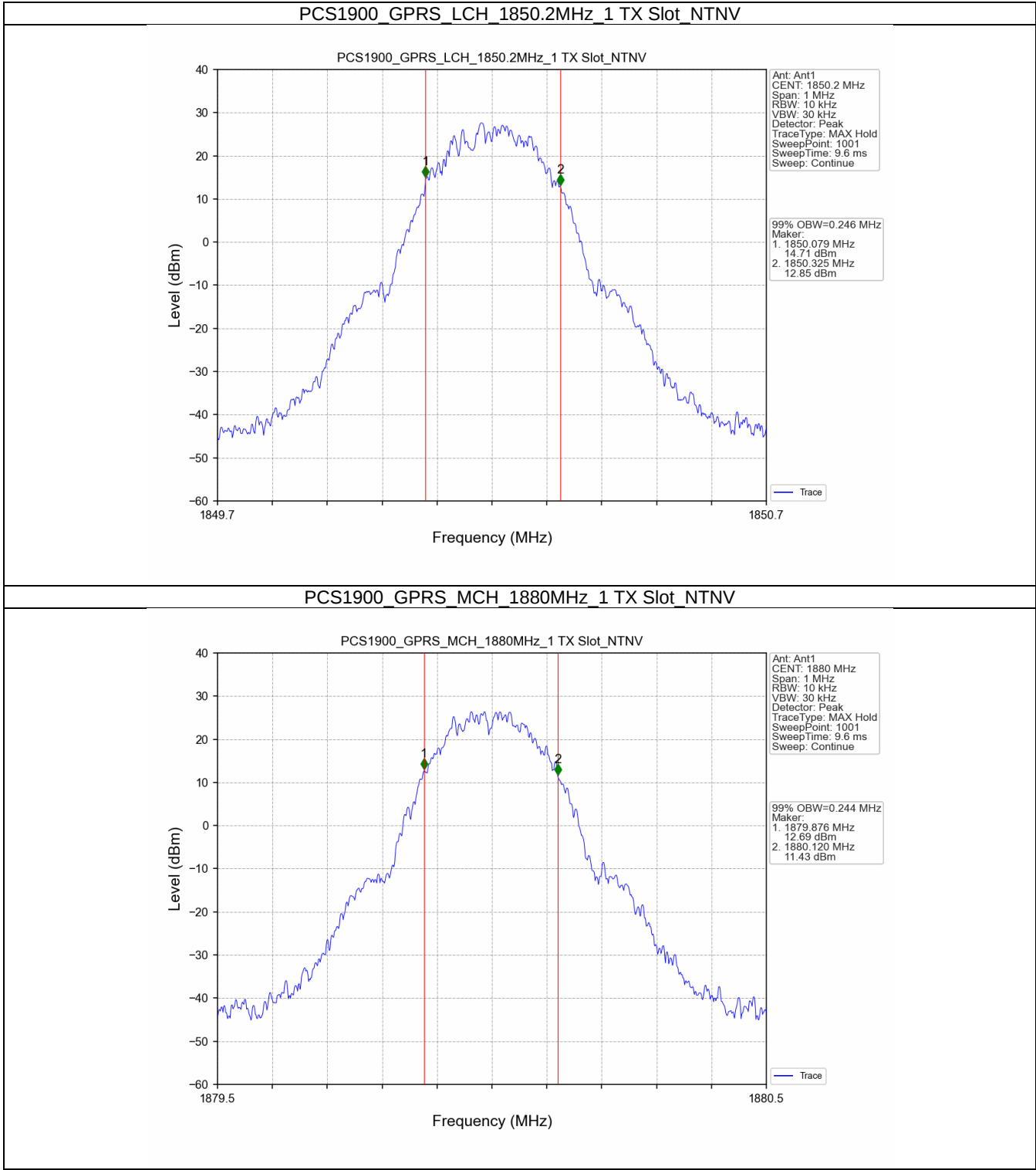
3. 99% & 26dB Bandwidth

3.1 PCS1900_OBW

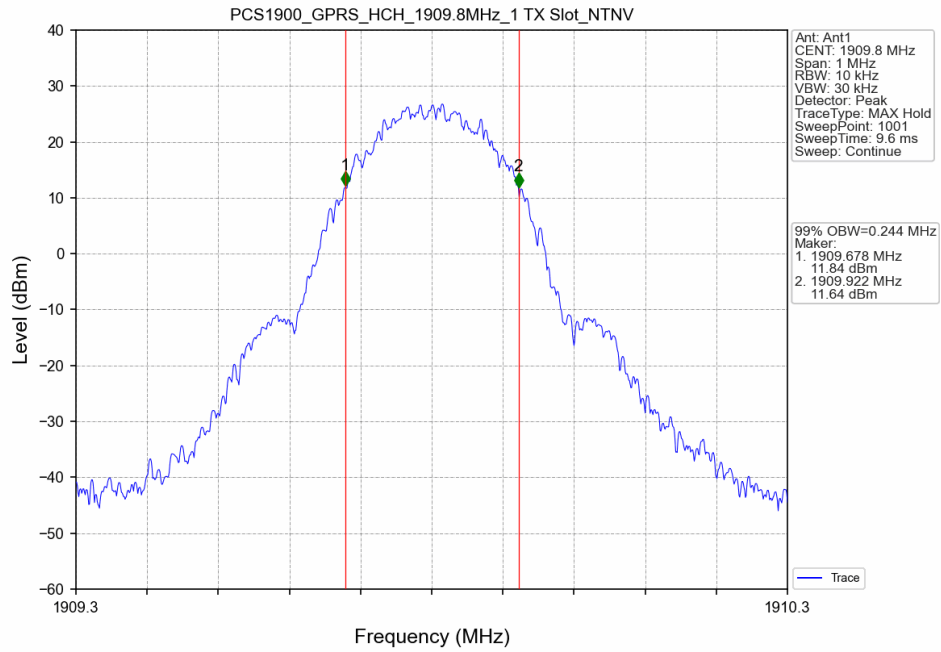
3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.246	/	Pass
			1880	0.244	/	Pass
			1909.8	0.244	/	Pass
	EGPRS	1 TX Slot	1850.2	0.248	/	Pass
			1880	0.248	/	Pass
			1909.8	0.240	/	Pass

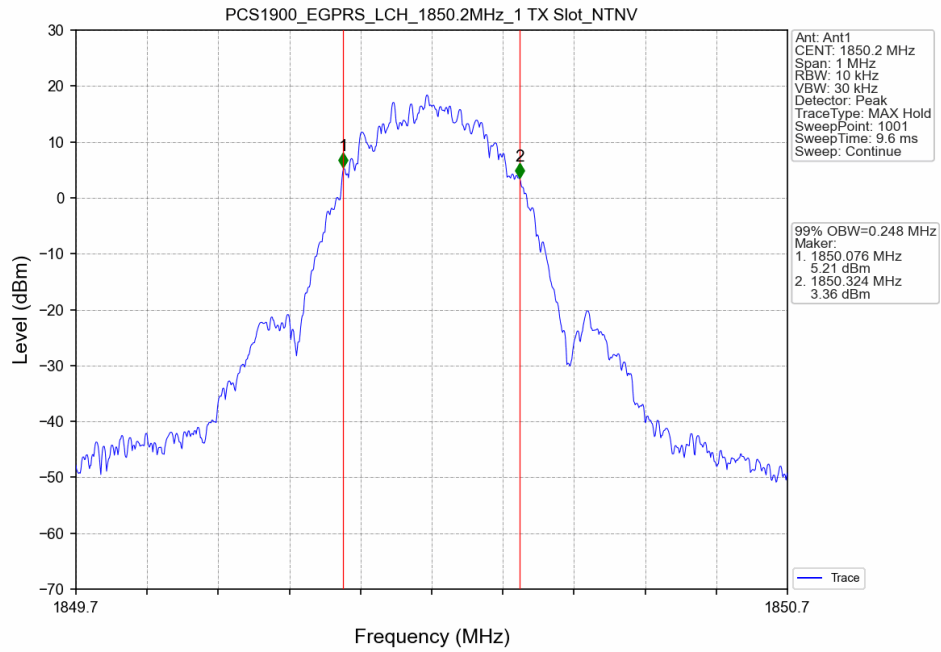
3.1.2 Test Graph



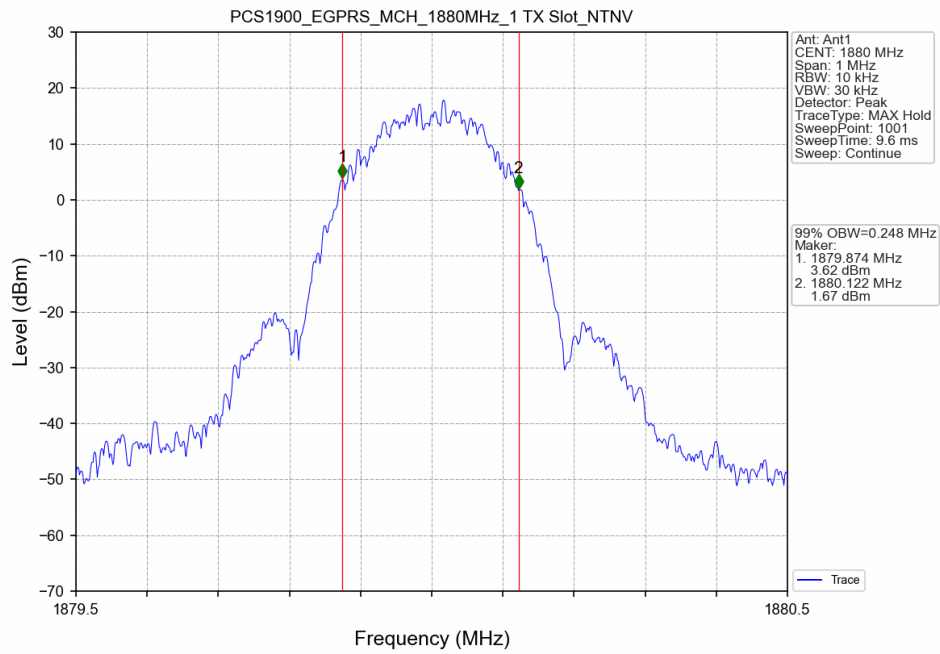
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



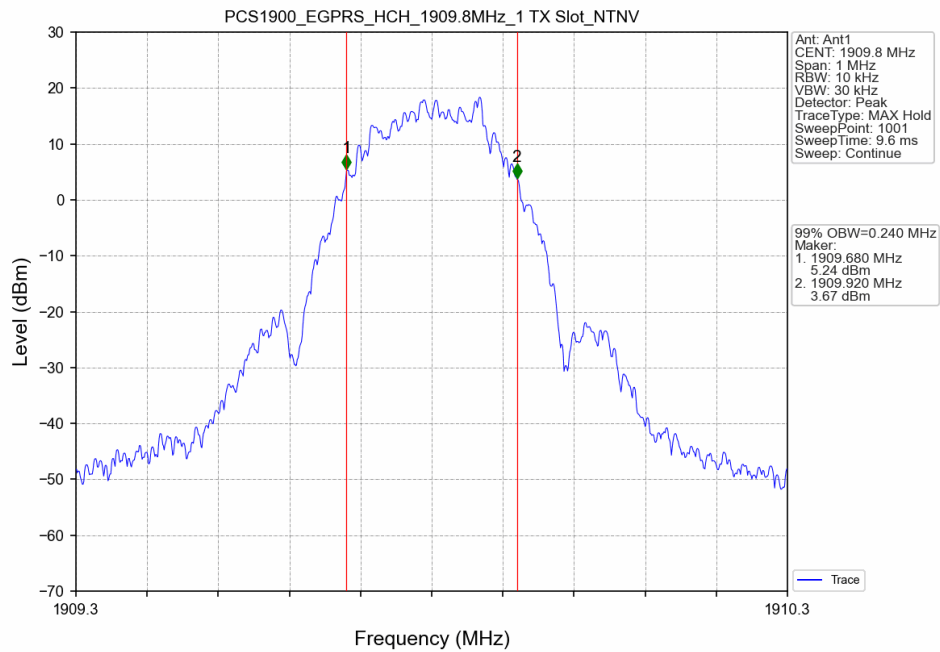
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN

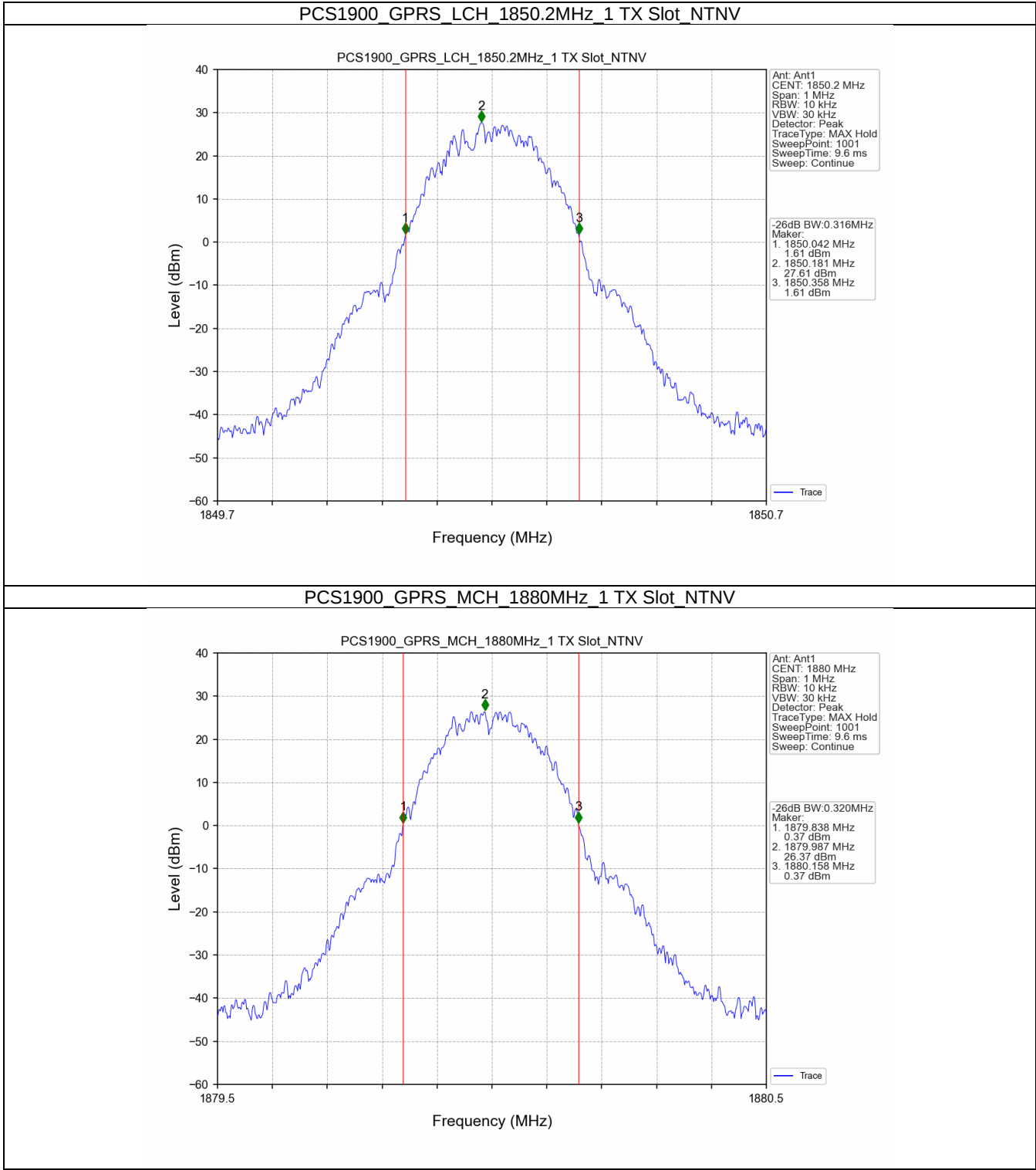


3.2 PCS1900_XDB

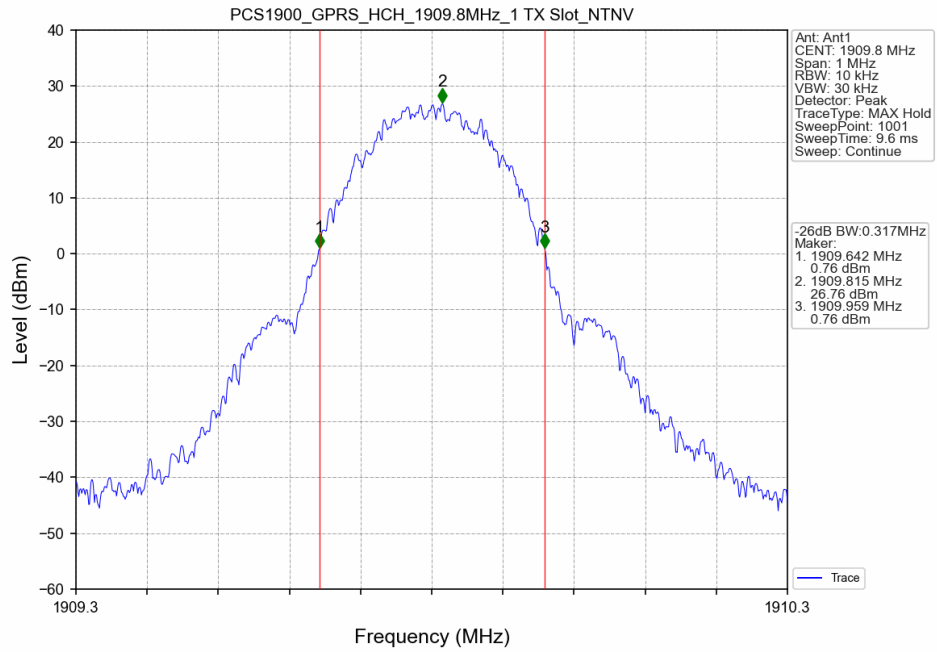
3.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.316	/	Pass
			1880	0.320	/	Pass
			1909.8	0.317	/	Pass
	EGPRS	1 TX Slot	1850.2	0.305	/	Pass
			1880	0.308	/	Pass
			1909.8	0.314	/	Pass

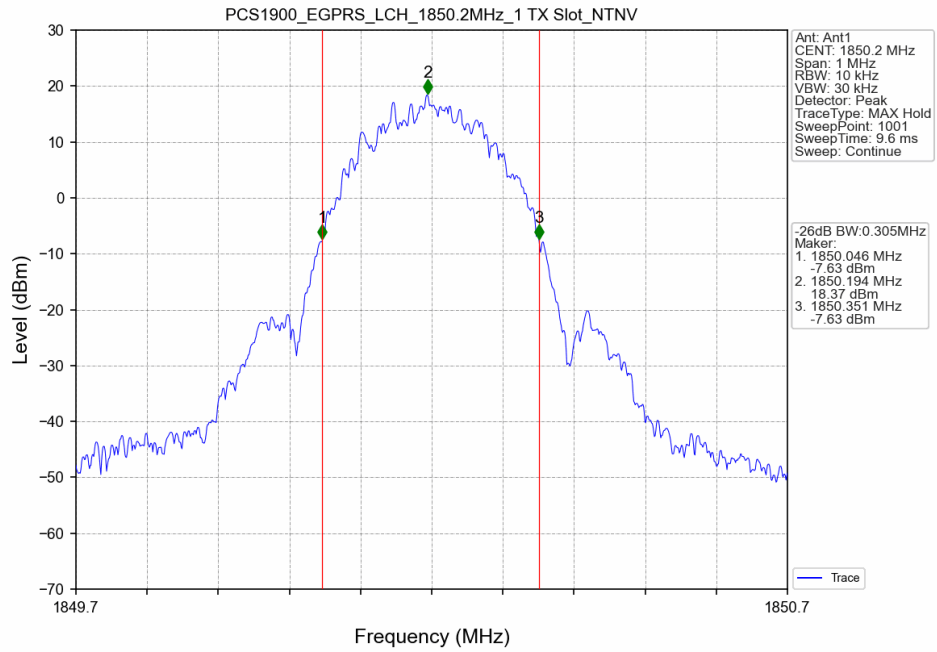
3.2.2 Test Graph



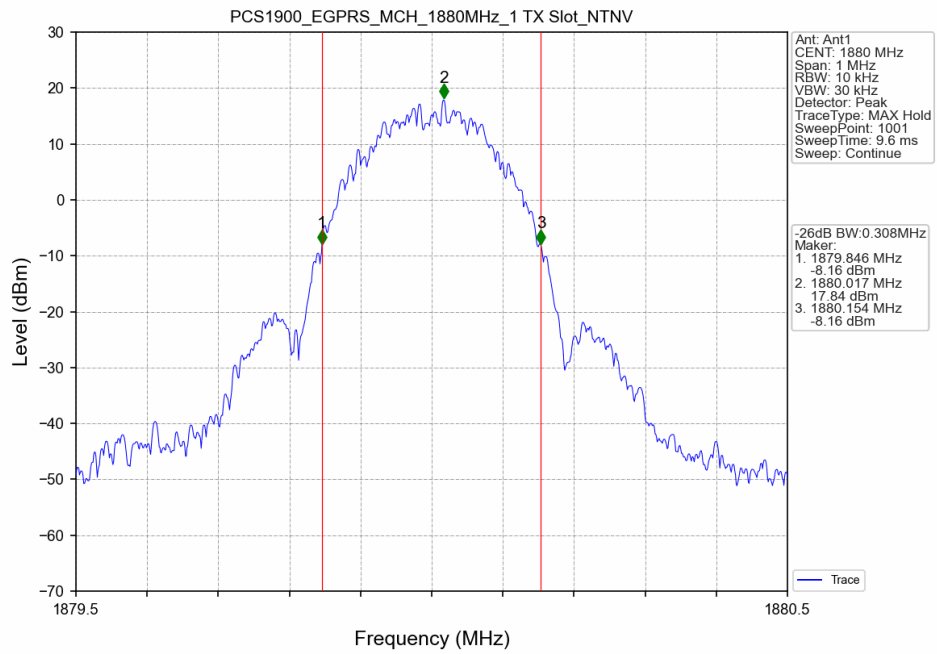
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



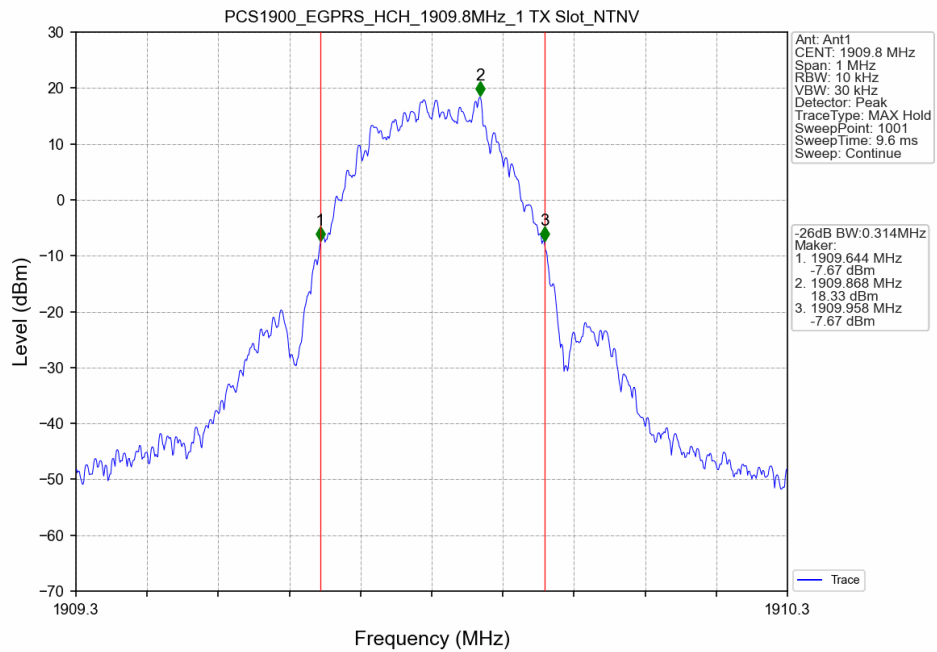
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



PCS1900 EGPRS MCH 1880MHz 1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV



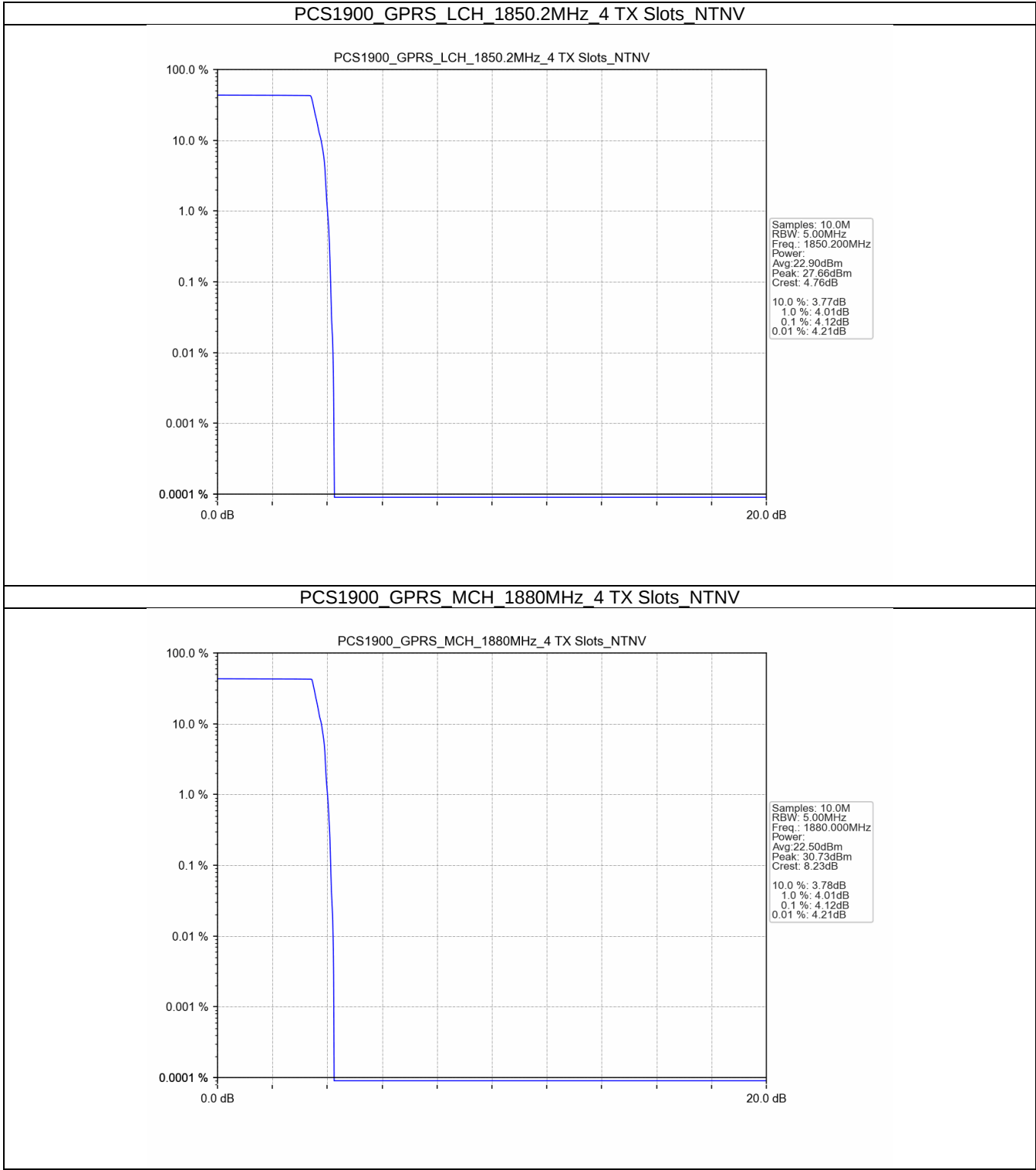
4. Peak-Average Ratio

4.1 PCS1900

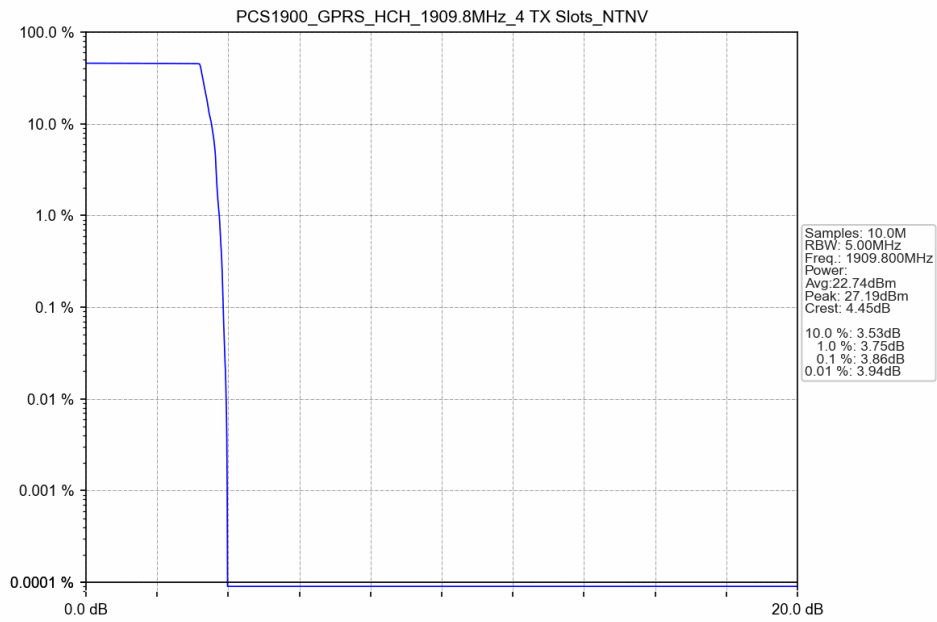
4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	4.12	<=13	Pass
			1880	4.12	<=13	Pass
			1909.8	3.86	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.87	<=13	Pass
			1880	6.74	<=13	Pass
			1909.8	7.07	<=13	Pass

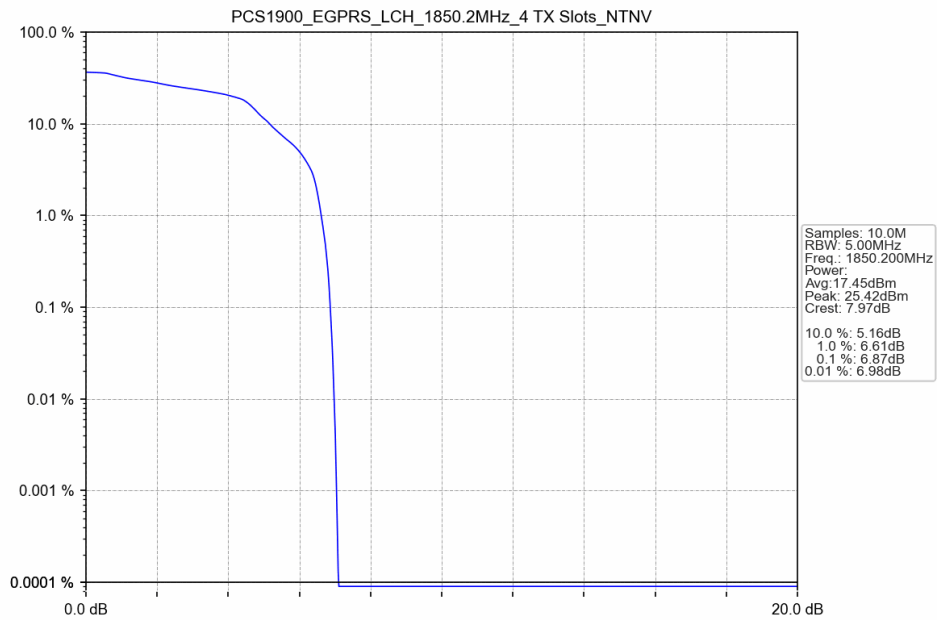
4.1.2 Test Graph



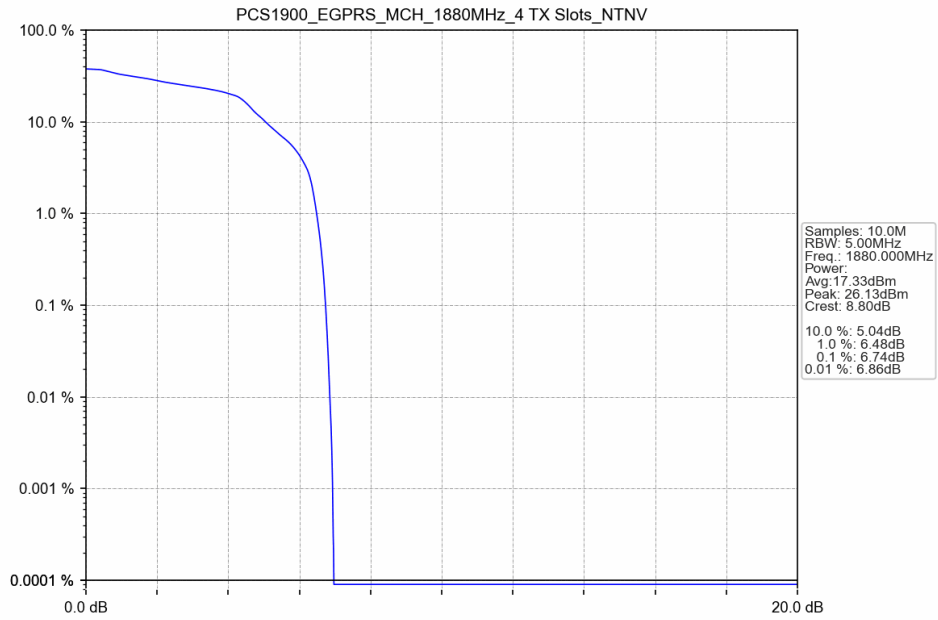
PCS1900 GPRS HCH 1909.8MHz 4 TX Slots NTN



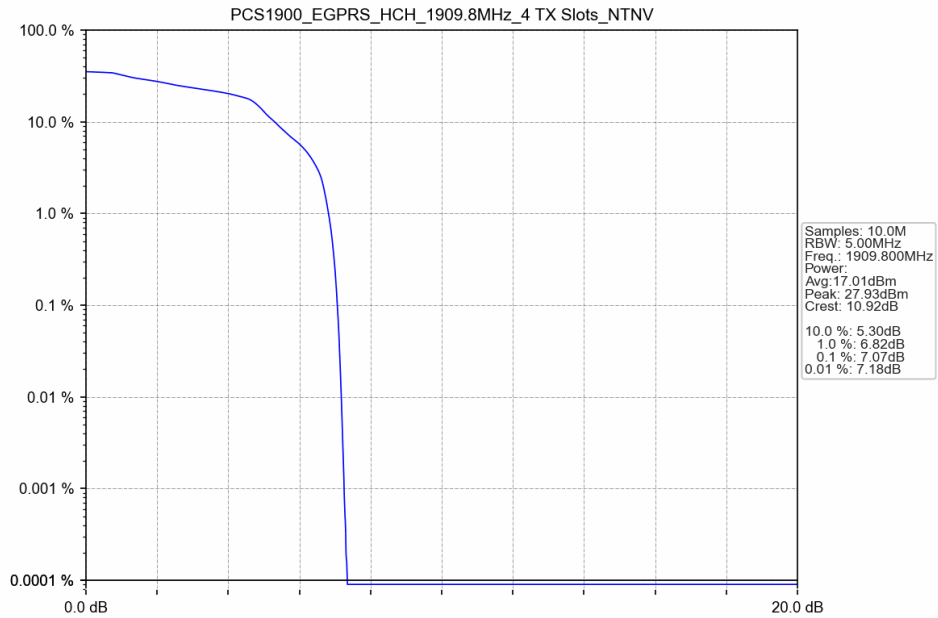
PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTN



PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTN



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTN



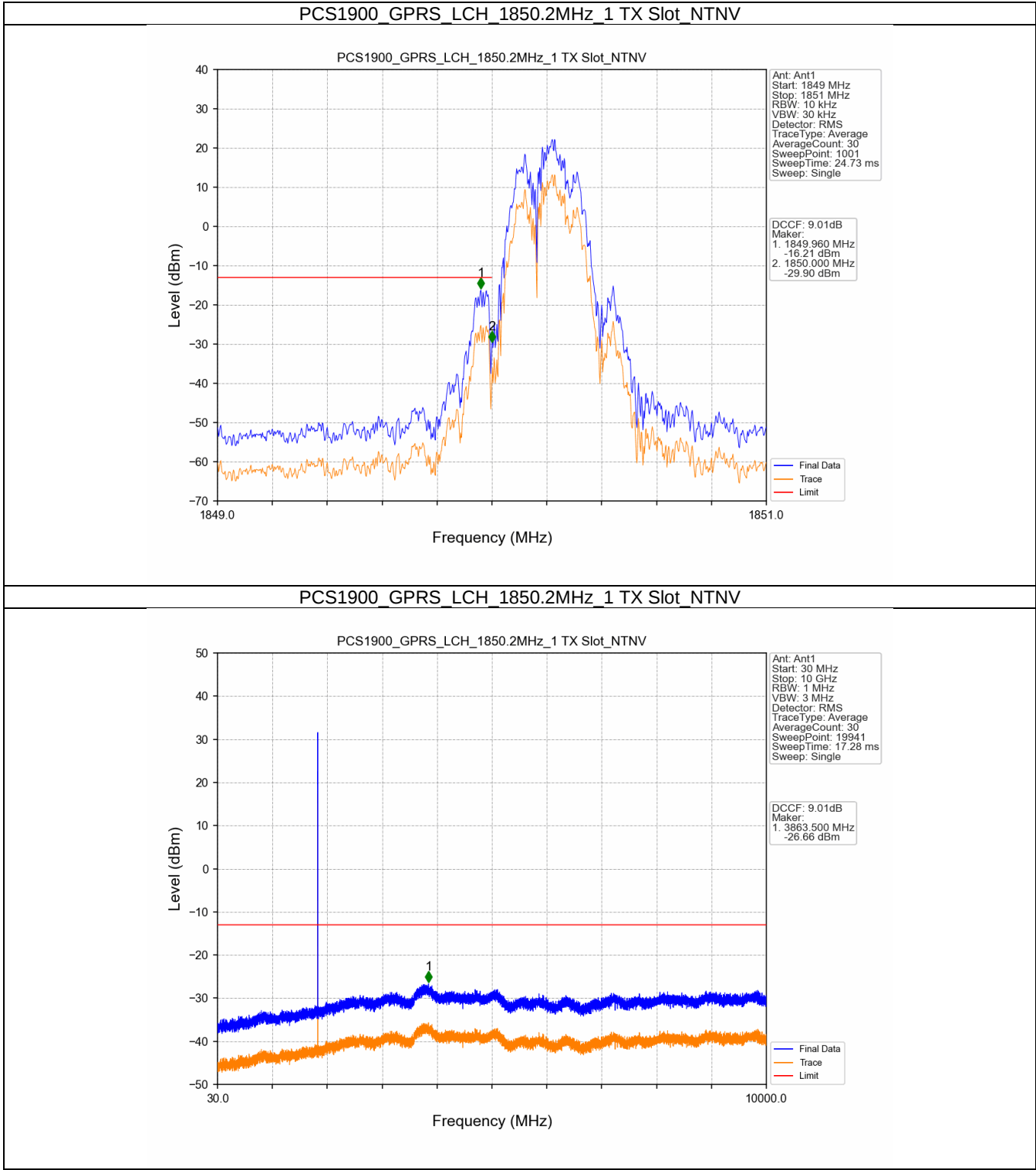
5. Spurious Emission

5.1 PCS1900

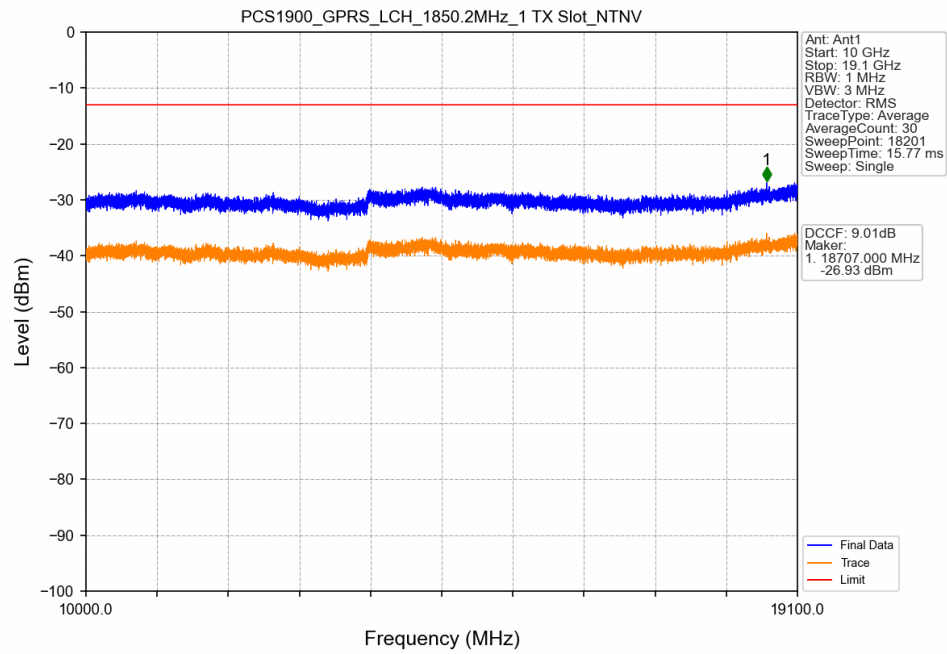
5.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass

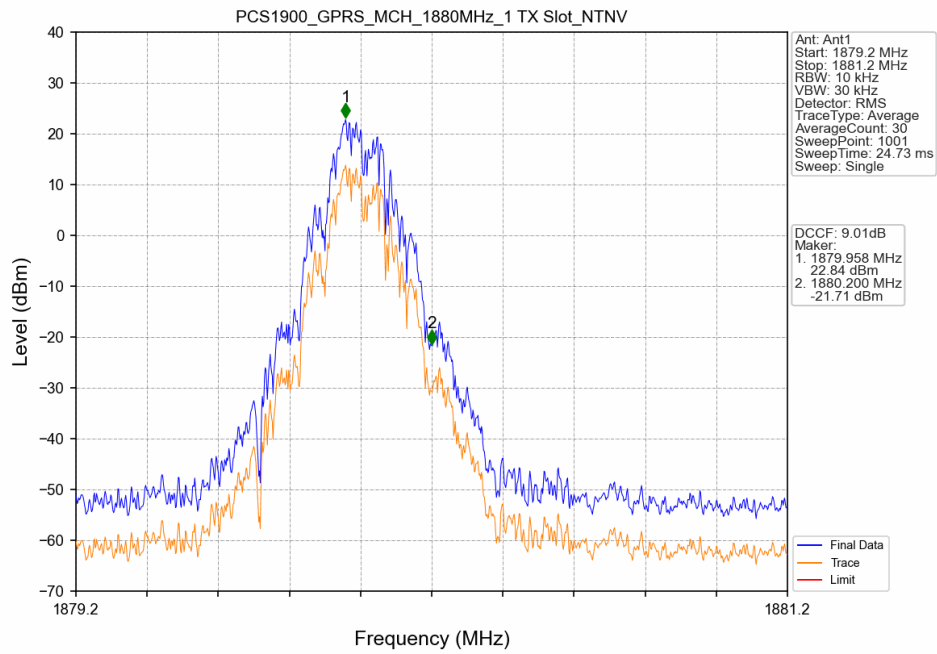
5.1.2 Test Graph



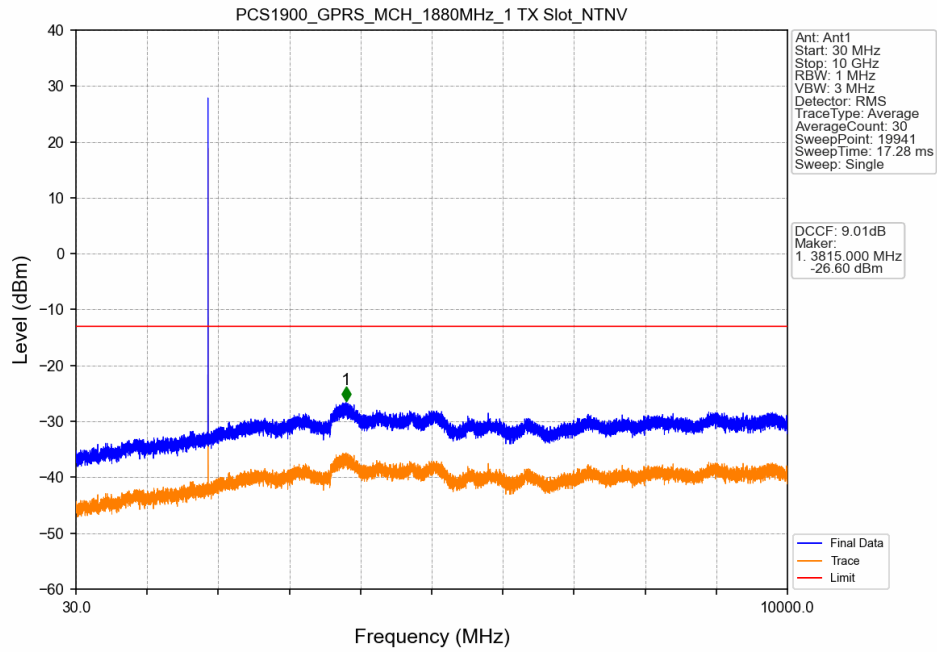
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot_NTNV



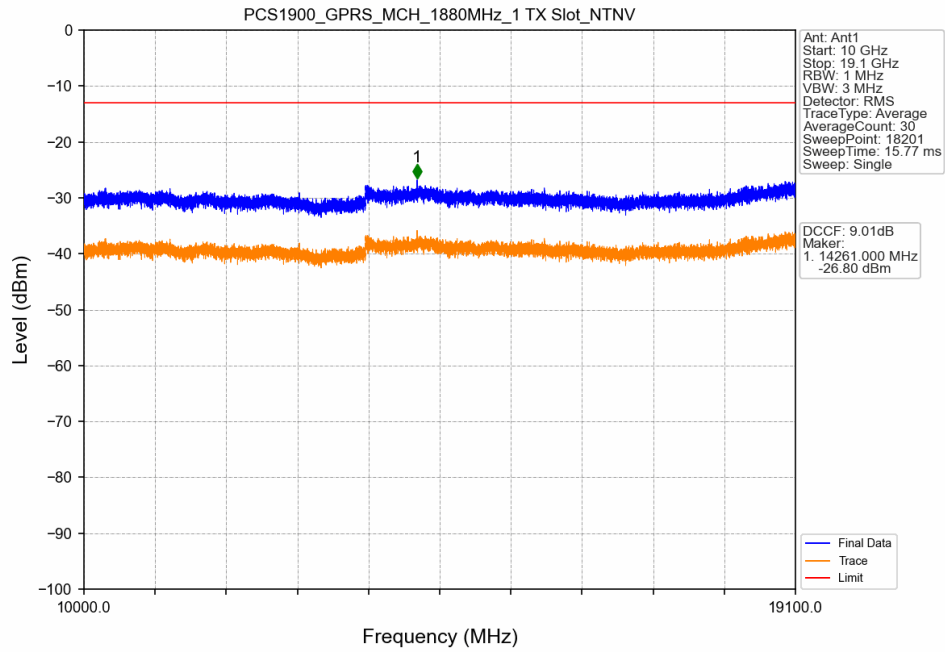
PCS1900 GPRS MCH 1880MHz 1 TX Slot_NTNV



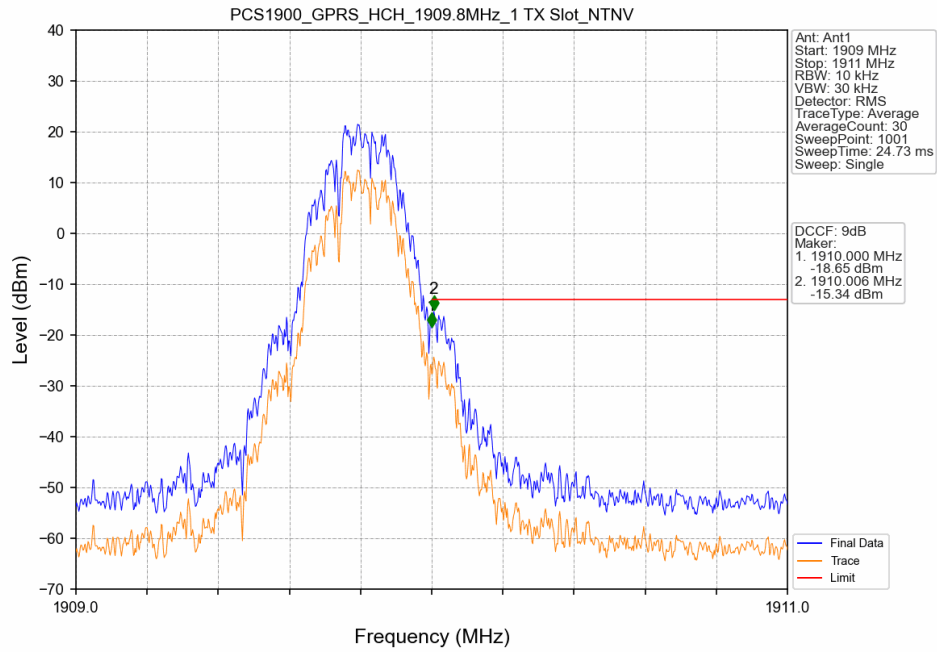
PCS1900 GPRS MCH 1880MHz 1 TX Slot_NTNV



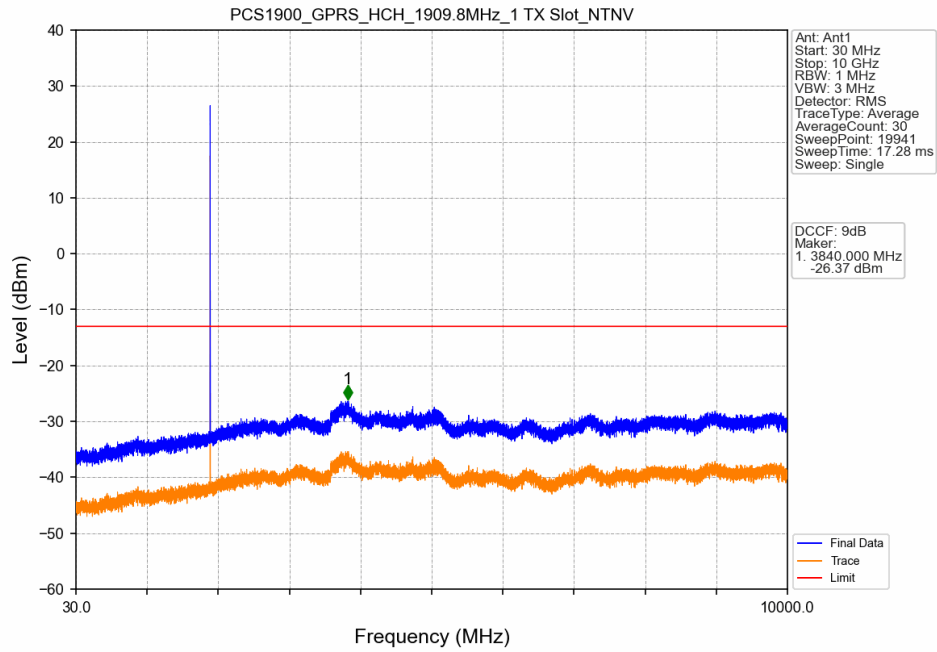
PCS1900 GPRS MCH 1880MHz 1 TX Slot_NTNV



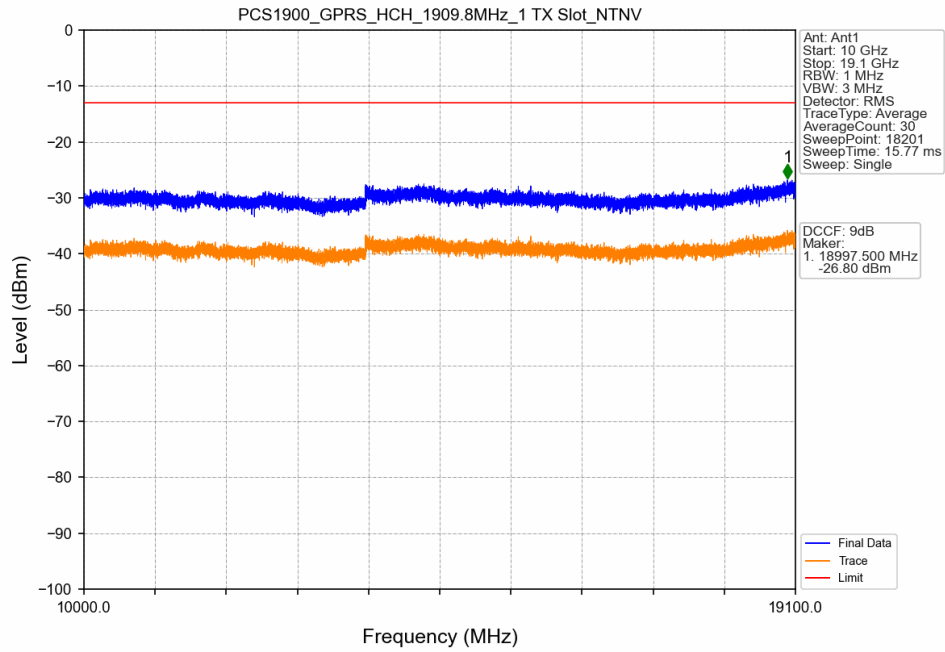
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



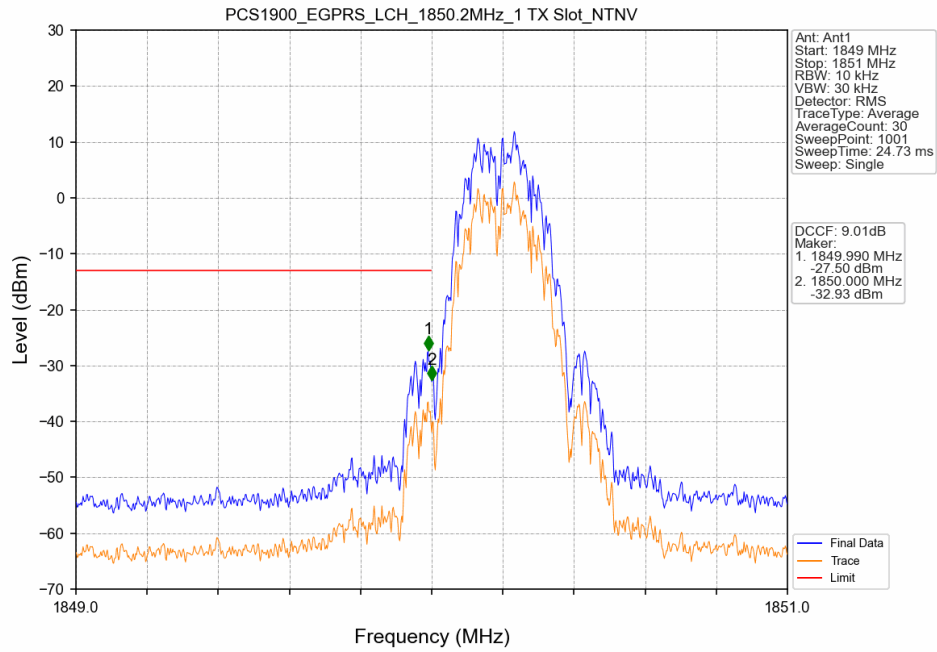
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



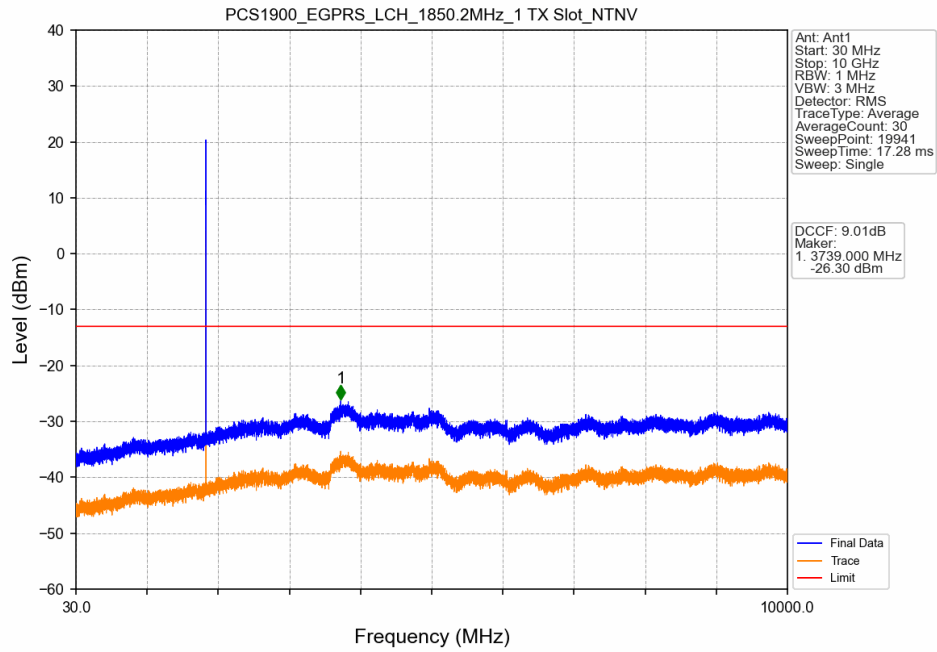
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



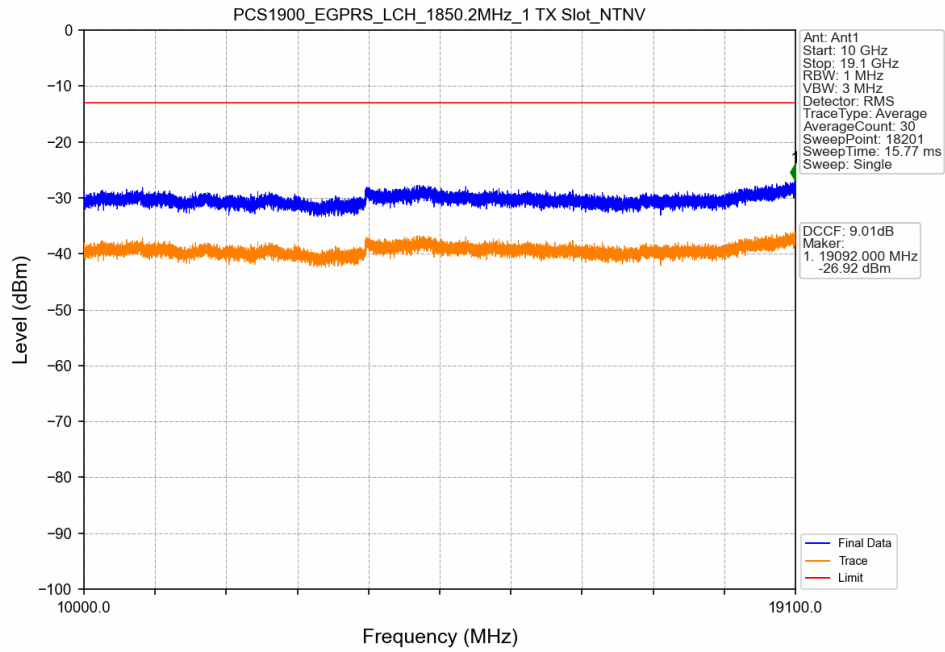
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



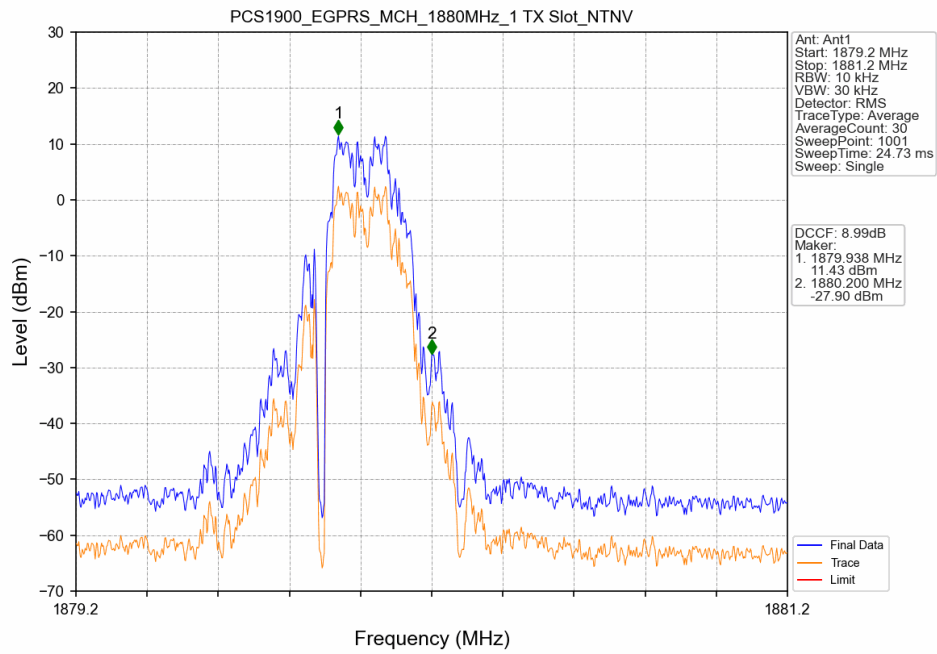
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot_NTNV



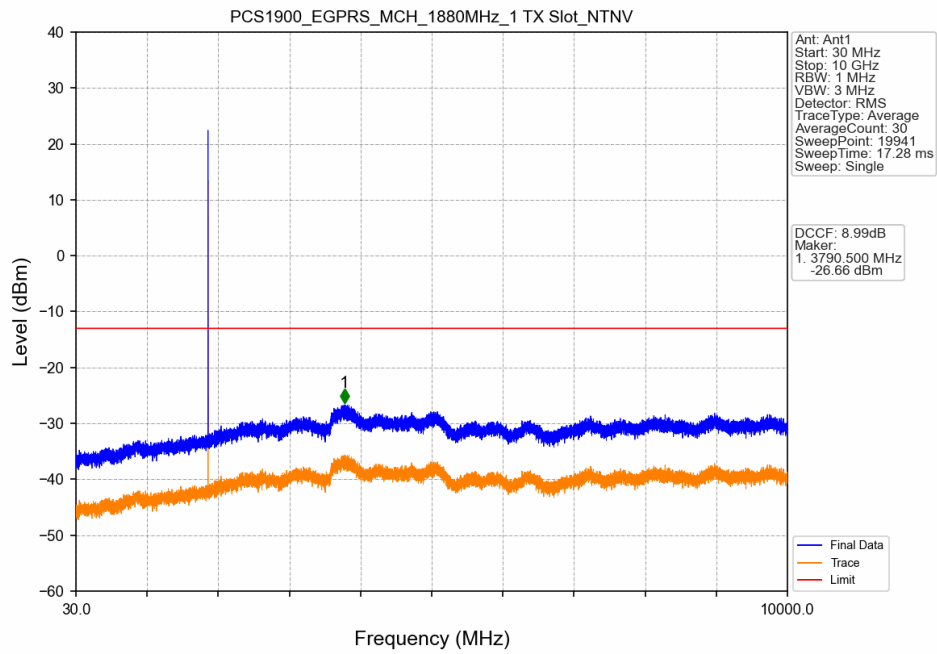
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot_NTNV



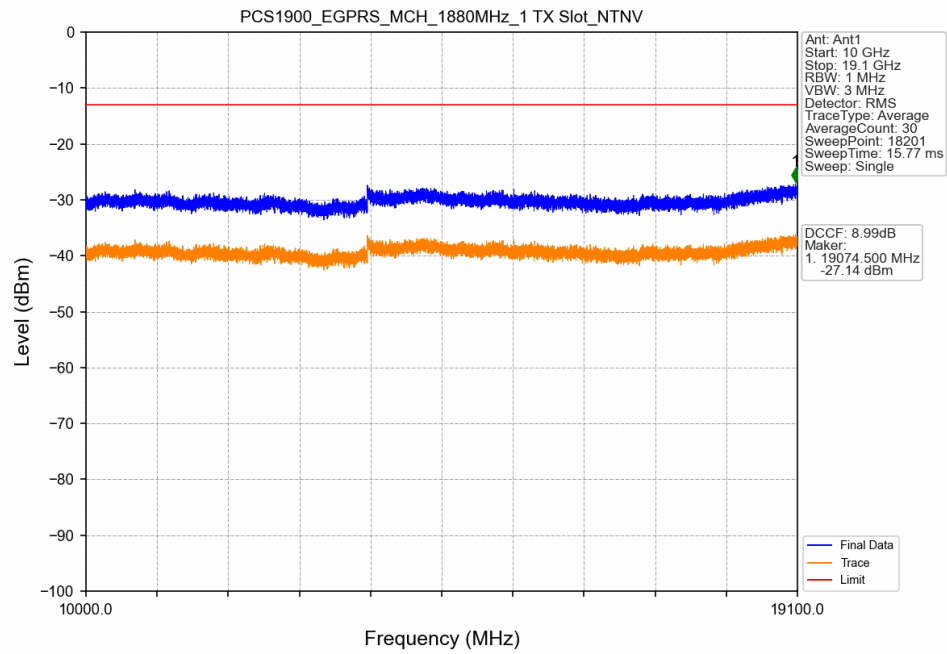
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



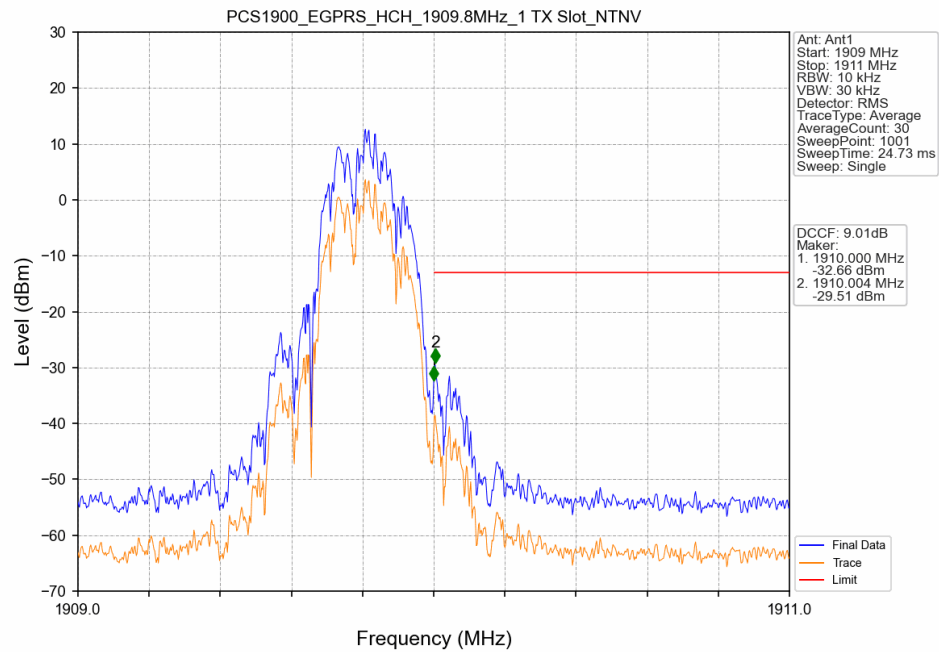
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



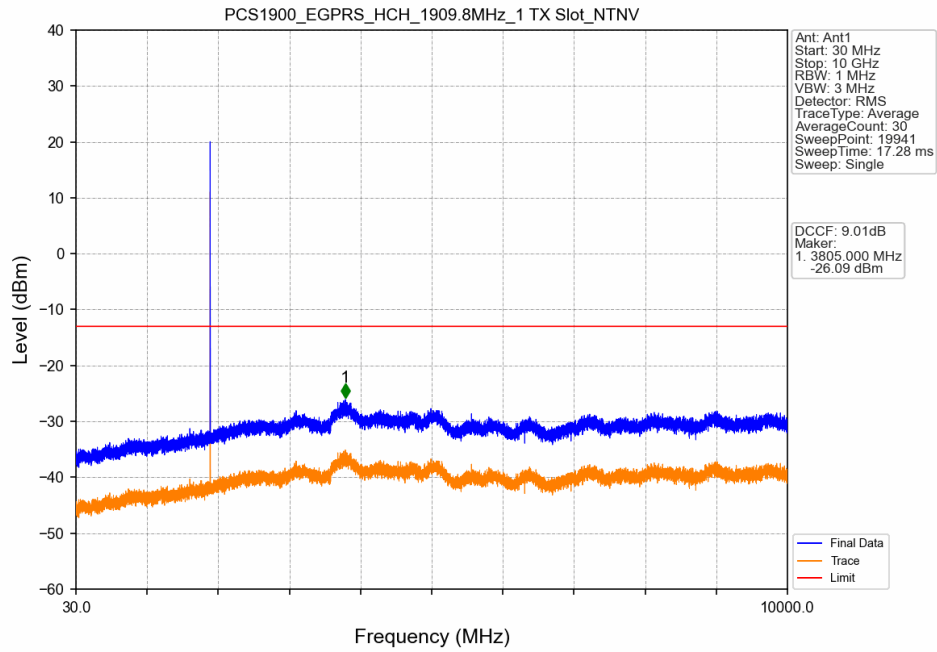
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



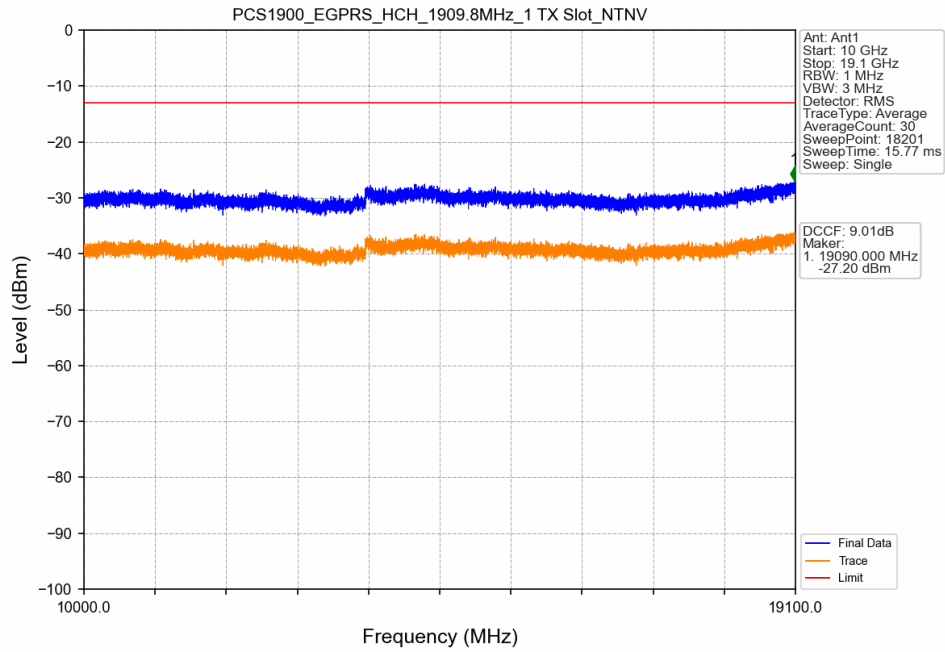
PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV



6. Form731

6.1 Form731_Power

6.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
PCS1900	0.2	1850.2	1909.8	1.4488	0.0233	ppm	246KGXW	24E	31.61
PCS1900	0.2	1850.2	1909.8	0.1644	0.0215	ppm	248KG7W	24E	22.16

6.2 Form731_EIRP

6.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
PCS1900	0.2	1850.2	1909.8	2.6669	0.0233	ppm	246KGXW	24E	34.26
PCS1900	0.2	1850.2	1909.8	0.3027	0.0215	ppm	248KG7W	24E	24.81